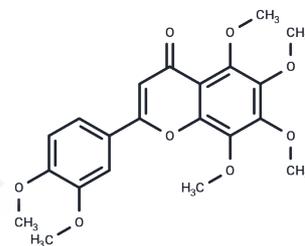


Nobiletin

Chemical Properties

CAS No. :	478-01-3
Formula:	C ₂₁ H ₂₂ O ₈
Molecular Weight:	402.39
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Nobiletin (Hexamethoxyflavone) is a natural polymethoxylated flavone isolated from citrus peels with anti-inflammatory and anti-tumor activities. Nobiletin is practically insoluble (in water) and an extremely weak acidic compound (based on its pKa).
Targets(IC50)	Apoptosis, MMP, Reactive Oxygen Species, Autophagy, ROR
In vivo	LD50: 780 mg/kg (i.g.). [4]

Solubility Information

Solubility	H ₂ O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 3 mg/mL (7.46 mM), Sonication is recommended. DMSO: 70 mg/mL (173.96 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4852 mL	12.4258 mL	24.8515 mL
5 mM	0.497 mL	2.4852 mL	4.9703 mL
10 mM	0.2485 mL	1.2426 mL	2.4852 mL
50 mM	0.0497 mL	0.2485 mL	0.497 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Murakami A, et al. Cancer Res, 2000, 60(18), 5059-5066.

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Sato T, et al. Cancer Res, 2002, 62(4), 1025-1029.

Whitman SC, et al. Atherosclerosis, 2005, 178(1), 25-32.

He B, et al. The Small Molecule Nobiletin Targets the Molecular Oscillator to Enhance Circadian Rhythms and Protect against Metabolic Syndrome. Cell Metab. 2016 Apr 12;23(4):610-21.

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